

## CLAIMS

What is claimed is:

1. A differential audio device for applications in notebook computers, which comprises:

5 an audio controller, which outputs a single-ended right audio signal and a single-ended left audio signal;

a single-ended signal to differential signal converter, which separately converts the single-ended right audio signal and the single-ended left audio signal into differential audio signals; and

10 a differential signal to single-ended signal converter, which separately converts the differential audio signals into the single-ended right audio signal and the single-ended left audio signal.

2. The device of claim 1, wherein the differential audio signal further comprises a first differential right audio signal.

15 3. The device of claim 1, wherein the differential audio signal further comprises a second differential right audio signal.

4. The device of claim 1, wherein the differential audio signal further comprises a first differential left audio signal.

20 5. The device of claim 1, wherein the differential audio signal further comprises a second differential left audio signal.

6. The device of claim 1 further comprising a peripheral device to play the audio signal.

7. The device of claim 6, wherein the peripheral device is an audio jack.
8. The device of claim 6, wherein the peripheral device is a speaker.
9. The device of claim 6, wherein the peripheral device is an earphone.